

CLAIMS

I CLAIM:

1. A structure comprising a retaining bracket,
said retaining bracket comprising:

5 a body having a mounting aperture;

one or more upper tabs extending perpendicularly
from said body, said one or more upper tabs lying in a
first plane; and

10 one or more lower tabs extending perpendicularly
from said body, said one or more lower tabs lying in a
second plane spaced apart from said first plane.

2. The structure of Claim 1 wherein said second
plane is parallel to said first plane.

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3. The structure of Claim 1 wherein said one or
more upper tabs comprises a first upper tab and a
second upper tab.

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4. The structure of Claim 3 wherein said one or
more lower tabs comprises a first lower tab between
said first upper tab and said second upper tab.

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5. The structure of Claim 4 wherein said one or
more lower tabs further comprises a second lower tab,
said first upper tab being between said first lower tab
and said second lower tab.

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6. The structure of Claim 1 wherein said one or
more lower tabs, said one or more upper tabs, and said
body define a slot.

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7. The structure of Claim 6 further comprising a
printed circuit board having an edge supported in said
slot.

8. The structure of Claim 7 wherein a first surface of said printed circuit board is supported by said one or more upper tabs and a second surface of
5 said printed circuit board is supported by said one or more lower tabs.

9. The structure of Claim 7 wherein said printed circuit board is a mother board.

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10. A method of supporting a printed circuit board comprising:

defining a slot by one or more upper tabs lying in a first plane, a body, and one or more lower tabs lying
15 in a second plane spaced apart from said first plane;

sliding an edge of said printed circuit board into said slot; and

mounting said body to a circuit board housing.

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11. The method of Claim 10 wherein said mounting said body to a circuit board housing comprises:

passing a screw through a mounting aperture of said body; and

threading said screw into a threaded structure in
25 or adjacent said circuit board housing.

12. The method of Claim 10 wherein a first surface of said printed circuit board is supported by said one or more upper tabs and a second surface of
30 said printed circuit board is supported by said one or more lower tabs.

13. The method of Claim 10 wherein said printed circuit board is a mother board.

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14. A structure comprising a retaining bracket,
said retaining bracket comprising:

an arm;

5 a first extension attached to a first end of said
arm, said first extension comprising a mounting
aperture;

a second extension having a first end attached to
a second end of said arm; and

10 a tab attached to a second end of said second
extension.

15 15. The structure of Claim 14 wherein said first
extension is perpendicular to said arm and said second
extension is perpendicular to said arm.

16. The structure of Claim 15 wherein said tab is
perpendicular to said second extension and parallel to
said arm.

20 17. The structure of Claim 14 further comprising
a rail along a length of said arm and extending
perpendicularly from said arm.

18. The structure of Claim 17 wherein said rail
25 provides strength and rigidity of said arm.

19. The structure of Claim 14 further comprising
a circuit board having a retaining clip, said arm
contacting and locking in place said retaining clip.

30 20. The structure of Claim 19 further comprising:
a first circuit board housing; and
a second circuit board housing, said retaining
bracket being mounted to said first circuit board
35 housing and said second circuit board housing.

21. The structure of Claim 20 wherein said first circuit board housing comprises a slot, said second extension being mounted to said first circuit board 5 housing by locating said tab in said slot.

22. The structure of Claim 21 further comprising a screw, said first extension being mounted to said second circuit board housing by said screw, said screw 10 passing through said mounting aperture and being threading into a threaded structure in or adjacent said second circuit board housing.

23. A method of locking a retaining clip in place with an arm of a retaining bracket comprising:
locating a tab of said retaining bracket in a slot of a first circuit board housing;
passing a screw through a mounting aperture in a first extension of said retaining bracket extending 20 from said arm; and
threading said screw into a threaded structure in or adjacent a second circuit board housing, wherein said arm contacts said retaining clip.

24. The method of Claim 23 wherein said tab is attached to said arm by a second extension of said retaining bracket.

25. The method of Claim 23 wherein a circuit 30 board comprising said retaining clip is contained within an enclosure defined by said first circuit board housing and said second circuit board housing.

26. A structure comprising a retaining bracket, 35 said retaining bracket comprising:

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a body;
a first extension attached to a first end of said body, said first extension comprising a mounting aperture; and

5 a second extension, a first end of said second extension attached to a second end of said body, a second end of said second extension including a first protrusion and a second protrusion.

10 27. The structure of Claim 26 wherein said body comprises:
 a first arm;
 a second arm; and
 a support beam, said first arm, said second arm, and said support beam being integrally attached together at said first end and said second end of said body.

15 28. The structure of Claim 27 further comprising a plurality of rails along lengths of said first arm and said second arm, said rails providing strength and rigidity to said first arm and said second arm.

20 29. The structure of Claim 26 wherein said first extension and said second extension are perpendicular to said body.

25 30. The structure of Claim 29 further comprising:
 a first lip defined by said first protrusion; and
 a second lip defined by said second protrusion.

30 31. The structure of Claim 30 wherein said first lip and said second lip are parallel to said body.

35 32. The structure of Claim 30 further comprising:

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5 a first circuit board housing;
 a first mounting stud extending from said first
circuit board housing, said first mounting stud engaged
with said first lip; and
 a second mounting stud extending from said first
circuit board housing, said second mounting stud
engaged with said second lip.

10 33. The structure of Claim 32 further comprising:
 a second circuit board housing;
 a screw passing through said mounting aperture and
threaded into a threaded structure in or adjacent said
second circuit board housing.

15 34. The structure of Claim 33 wherein said first
extension is mounted to said second circuit board
housing and wherein said second extension is mounted to
said first circuit board housing.

20 35. A method of mounting a retaining bracket to a
first circuit board housing and a second circuit board
housing comprising:
 attaching a first mounting stud and a second
mounting stud to said first circuit board housing;
 passing a first protrusion of said retaining
bracket around said first mounting stud;
 sliding said retaining bracket towards said first
mounting stud;
 passing a second protrusion of said retaining
30 bracket around said second mounting stud; and
 sliding said retaining bracket towards said second
mounting stud.

35 36. The method of Claim 35 wherein said sliding
said retaining bracket towards said second mounting

stud causes a first lip defined by said first protrusion to engage said first mounting stud and causes a second lip defined by said second protrusion to engage said second mounting stud.

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37. The method of ~~Claim~~ 35 further comprising:
passing a screw through a mounting aperture of
said retaining bracket; and
threading said screw into a threaded structure in
10 or adjacent said second circuit board housing.